APPLICATION FOR APPROVAL OF EMISSIONS AND EMISSION INVENTORY QUESTIONNAIRE

Grand Isle Shipyard, Inc. Galliano, LA

September 2006

ENVIRO-SENSE, INC.

Grand Isle Shipyard, Inc. Galliano, LA Air Permit Application

Introduction

Grand Isle Shipyard (GIS) is located at 18838 Hwy. 3235 near Galliano in Lafourche Parish. Maps of the facility are located in Appendix A. This is an initial permit application for this facility. This facility is a small source of air emissions.

Process Description

GIS constructs offshore structures and equipment that are used by the oil and gas industry. Air emissions generated during the construction process are typically from painting, general solvent use, and sandblasting. These activities occur in vented warehouses and outdoors. As such, they are all area sources.

GIS requests to be permitted to use 12,000 gallons of paints and solvent per year and 1,400 rons of sand per year. Material Safety Data Sheets for the paints and solvents are kept onsite and are available upon request.

Control Equipment

Since all emissions sources are fugitive, there is no process control equipment at the facility. All emission reductions are achieved through work practice standards and material selection. GIS uses low VOC paints when available and encourages employees to use good housekeeping practices. The housekeeping plan can be found in Appendix B.

Insignificant Activities

This facility has one 500 gallon diesel tank. The vapor pressure of diesel is less than 0.5 psia. As such, this tank is an insignificant source of emissions.

50 1B 5 A.3

Emission Summary

| Pollutant | Proposed Permit Limit (tpy) |
|------------------|--------------------------------|
| PM ₁₀ | 9.18 |
| VOC | 22.04 |
| Total TAPs | 15.48 |



The paint, thinner, and solvent air emissions were calculated by doing material balances on each product, utilizing the manufacturer's data on each. A one hundred percent evaporation rate was assumed for the volatile constituents. A material balance on the solid constituents, accounting for transfer and containment efficiencies, was used for the solids in the paint.

The sandblasting emissions were estimated using CARB emission factors for abrasive blasting. Containment efficiencies were applied on top of the factors. Please see Appendix C for a spreadsheet of the calculations

Requested Specific Condition

Much of GiS's work is dictated by their client's specifications. Every effort was made to accurately account for the air emissions at this site. However, the paints, thinner, and solvents used at the site are subject to change with each job. As such, flexible permit limits are being requested to keep the company competitive while ensuring compliance with applicable state and federal regulations. Section 925 of LAC33.lll states that a facility may propose a mass emission rate for any pollutant equal to the sum of all sources within a facility for approval by the administrative authority. The facility will set emission rates for each proposed source within the facility that when accumulated will demonstrate compliance with the mass emission rate. As such, AOQ proposes the following for the paints, thinners, and solvents:

1. Facility will abide by the limits set forth in LAC33.lll.2123.C-11.

2. Facility will use no more than 7,200 gallons of paint and thinner, and 4,900 gallons of solvent each year. Usage of each will be recorded each month.

3. VOC emissions from paints, thinners, and solvents used will not exceed 22 tpy; total TAP emissions from paints, thinners, and solvents will not exceed 16 tpy. VOC and TAP emissions will be calculated monthly.

4. The facility shall use materials which contain only the TAPs listed in the following table.

| Pollutant | CAS No. | Class | Requested Emission Rate (tpy) |
|------------------------|-----------|-------|----------------------------------|
| Barium (and compounds) | 7440-39-3 | II | <1 /= |
| Benzene | 71-43-2 | ı | <0.1 ~ |
| n-Butanol | 71-36-3 | III | <5.5 ✓ |
| Dibutyl Phthalate | 84-74-2 | - 11 | <0.19 / |
| Ethylbenzene | 100-41-4 | 11 | <9 / |
| Formaldehyde | 50-00-0 | ī | <0.1 V |
| Glycol Ethers | 109-86-4 | ш | <0.5 √ |
| HDI Isocynote | 822-06-0 | 111 | <1 / |

1 ton / 1/2 /20016 JX 3640 h/ 1 to

(hexamethy) disocymme)

| n-Hexane | 110-54-3 | 111 | <6.5 ✓ |] , |
|-------------------|-----------|------------|--------|----------|
| Methanol | 67-56-1 | (1) | <9 🗸 | 4.9 45 1 |
| MEK | 78-93-3 | HI | <9 / | 1) |
| MIBK | 108-10-1 | III | <7.5 ✓ | 4.121 P |
| Naphthalene | 91-20-3 | 11 | <1 ′ | 0.549 |
| Phenol | 108-95-2 | Ħ | <0.7 ✓ | 0.544 |
| Styrene | 100-42-5 | 11 | <1 🗸 | 10.5498 |
| Toluene | 108-88-3 | { | <9 ✓ | 4.9457 |
| Trichloroethylene | 79-01-6 | 11 | <1 V | 0.54999 |
| Xylene | 1330-20-7 | 11 | <9 / | 4.94511 |
| Zinc | 7440-66-6 | 11 | <1 🗸 | 6.549 91 |
| Total TAP | | | 16 | 1 |

Please see Appendix E for compliance status with the limits set forth in LAC33.III.2123.C-11.

MACT

This facility is a minor source of air emissions. Hence, it is not subject to either the Louisiana Shipbuilding MACT or to NESHAP Subpart MMMM.



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Application

APPLICATION TRANSMITTAL FORM

| tate Agency: | Deparimo | nt of Environmental Qua | | Jate: <u>September 30, 20</u> |
|------------------|--|--|-----------------------|------------------------------------|
| | Please subm | nit two copies of this form v | with the application. | |
| • | | PART A | | |
| | | Administrative Inform | nation | |
| acility Name | | Grane | I Isle Shipyard | |
| Citý: | | liano | Parish: | Lafourche |
| State: | LA Zíp: | | Telephone: | 985-475-5238 |
| | | | | |
| • | ct Person: Rhett Monie | | | |
| Facility Mailing | Address: P.O. Box 82 | | | |
| | Galliano, L | <u> </u> | | |
| | 70354 | | | |
| State Permit | Number | · | Primary SIC C | ode: 3479 |
| | | | | |
| , | · · <u> </u> | | | |
| | Płace an | X under the appropri | ate description: | |
| | • | 4.1 | 1261 - 21- | المعاد والمساعدة |
| . | D | | odification Minor | Supplemental <u>Information</u> |
| v Permit | <u>Renewal</u> | Major/Significant | <u>Minor</u> ┌─┐ | <u>imornianon</u> |
| ✓ | لسا | L | U | |
| | | PART B | | |
| | | Technical Informat | ion | |
| | | | | |
| | Place an 3 | X next to the appropri | ate information: | |
| Пс | O Source | ſ | NOx Source | |
| | M10 Source | ŗ | SO2 Source | |
| نـــا | OC Source | Ţ | Lead Source | |
| | T2(b) Pollutants | Ī | BIF Facility | |
| ٠. | · -// | | | · |
| . 🔲 P | SD Source | [| Compliance Schedul | e |
| <u> </u> | lonattainment Area | | Tederal Facility | |
| | cid Rain Source | { | General Permit Sout | rce |
| | Chlorofluorocarbons | [| Combustion Source | |
| | | The state of the s | Na Nama | |
| | | ed Monitoring (Part 64 |)? <u>None</u> | |
| | les of Class I area? les of Indian country? | NO YES | | |
| | art 60 NSPS subpart | | N/A | <u> </u> |
| whhiiranie i | 2.1 00 1101 0 300pull | - Character wash | | |
| Applicable P | art 61 NESHAP subp | art? (please list) | N/A | |
| | | · · · · · · · · · · · · · · · · · · · | | |
| Applicable P | art 63 MACT catego | ry? (please list) | N/A | |
| | | | | |
| Case by case | | N/A | | |

| Depo | artment of Environmental Quality | | | | | |
|------------------|--|---|-------------------------------------|---------------------------------------|--------------------------|---------------------------------------|
| Of | ffice of Environmental Services | | LOUISIAN | Α | | |
| | P.O. Box 4313 | Applicat | ion for Approva | | | 1 |
| Re | aton Rouge, LA 70821-4313 | | of Air Polluta | | | |
| | (225) 219 - 3181 | | | | | 1 |
| i | Company Name | <u></u> | | Owner | For Permits Division | Use Only 2 Marks 13 Mar |
| | Grand Isle Shipyard | | | ✓ Operator | | |
| Please | Parent Company (if Company Name g | iven above is a division) | | · · · · · · · · · · · · · · · · · · · | | |
| type | | | | | | |
| or | Plant Name | | | | | |
| print | GIS Galliano | , | | | | |
| | Nearest Town | Parish | | | | |
| | Galliano | Lafourche | | | | |
| | Agency Interest Number | CDS Number | | | | |
| | 110637 | | | | The second of the second | |
| 2. PROPC | OSED ACTION_ Give | o brief description of proposed action. Attack | h flow diagrams, illustrations requ | ulred to convey an understar | sding | |
| Crobania am | initial application for an oilfield | Fabrication contractor | | | | · · · · · · · · · · · · · · · · · · · |
| JUDINII GII | initial application for all officer | Tabrication contractor. | | | . | · · · |
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| 7 7 | | | | | | |
| 3. JWNE | RSHIP AND USE OF ADJOININ | G PROPERTY | | Map or descrip | otion attached. | |
| Distance to (| · | Arkansas: | Mississippi: | | Alabama: | • |
| | acility Front Gate: | 90' 17' 2" | | | | |
| ro sputigno. | Facility Front Gate: | 90 17 2 | | | | |
| This facility | y is located at 18838 Hwy. 323 | 5 between Galliano and Ga | olden Meadow. The | property is one | acre | |
| | 33 acres deep. It is surrounded | | | <u> </u> | | |
| | | , , , , , , , , , , , , , , , , , , , | | - - | | |
| | · · · · · · · · · · · · · · · · · · · | | | - | | |
| | | | | | | |
| 4 TYPE C | OF APPLICATION | | | | | |
| Part 70 | ✓ State | General | | Renewal (Pa | rt 70) | 1 |
| | | | | L_I Keriewai (Fa | 10707 | <u>.</u> 1 |
| | New Facility . sly grandfathered, exempted, or un | = | conciliation | of avioting facility | | |
| Previous | siy grandiatriered, exempted, or dif | permitted [_] Mod | dification or expansion | or existing facility | | <u> </u> |
| | | | | | | |
| Project fee co | alculation: Enter fee number, permit ty | pe, production capacity/thruput, ar | nd fee amount pursuant to | LAC 33:11 Chap.2 | | |
| Fee No. | Туре | Capacity | | (| Amount | |
| 1722 | Small Source Permit | · ************************************ | | | \$713.00 | |
| | | | | | | / |
| 5. KEY D | ATES | | | | | |
| | | | . | | | |
| Estimated Da | te construction will commence: | | Estimated Date ope | eration will commence | B; | |
| VL .omplete | ed Emission Inventory Questionnaire (EIQ) that reflect | s projected emissions from your facility as a w | hole after the project described i | n this application | | |

becomes operational must be submitted with this application. If you are submitting an application that is for modification or expansion of an existing facility, the Department of Environmental Quality must also have an EIQ for existing emissions. If you have already submitted an EIQ that is on file with the Department, it may fulfill this requirement.

|6. EMISSIONS BY POLLUTANT

List each emission from all sources. Group by pathstant PM10, SO2, NOx, CO, VOC Taxic Air Pollutanss (TAPs), non-VOC TAPs, Other VOC, non-VOC/non-TAPs, and Total VOC.

Grouping by SARA VOC and SARA non-VOC is optional. Show total tons/year for each pollutant. Consult instructions.

| ID Number | Emission Point | Pollutant | Permitted Emission Rate Before | Permitted Emission Rate Afte |
|--|---------------------------------------|---|--------------------------------|------------------------------|
| 3-2006 Particulate Matter 9.18 | ID Number | (fist individual TAPs & non-criteria hydrocarbons separately) | tons/yr | tons/yr |
| Total PM 9.18 | 1-2006 | Particulate Matter | | 0.43 |
| 1-2006 VOCs 10.77 2-2006 VOCs 11.28 Total VOC 22.04 1-2006 Xylene 2.51 1-2006 Toluene 0.05 1-2006 Ethylbenzene 0.55 1-2006 Naphtholene 0.11 1-2006 MEK 0.04 1-2006 MiBK 0.37 1-2006 Methanol 0.02 1-2006 Butanol 0.02 1-2006 Butanol 0.00 1-2006 Tinc 0.42 1-2006 Barlum 0.02 2-2006 Toluene 0.02 1-2006 Toluene 0.000 1-2006 Toluene 0.000 1-2006 Toluene 0.000 1-2006 Toluene 0.002 | 3-2006 | Particulate Matter | | 8.75 |
| 1-2006 | | Total PM | | 9.18 |
| Total VOC 22.04 | 1-2006 | VOCs | ****** | 10.77 |
| 1-2006 Xylene 2.51 1-2006 Toluene 0.05 1-2006 Ethylbenzene 0.55 1-2006 Naphthalene 0.11 1-2006 MEK 0.04 1-2006 MIBK 0.37 1-2006 Methanol 0.02 1-2006 Butanol 0.01 1-2006 Butanol 0.01 1-2006 Tinc 0.42 1-2006 Toluene 0.02 1-2006 Toluene 0.02 2-2006 Toluene 0.02 2-2006 Methanol 0.03 Total TAPs 15.48 | 2-2006 | VOCs | * | 11.28 |
| 1-2006 Toluene 0.05 1-2006 Ethylbenzene 0.55 1-2006 Naphthalene 0.11 1-2006 MEK 0.04 1-2006 MiBK 0.37 1-2006 Methanol 0.02 1-2006 Butanol 0.01 1-2006 HDI Isocynate 0.00 1-2006 Zinc 0.42 1-2006 Barlum 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | | | | 22.04 |
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| 1-2006 Ethylbenzene 0.55 1-2006 Naphthalene 0.11 1-2006 MEK 0.04 1-2006 MiBK 0.37 1-2006 Methanol 0.02 1-2006 Butanol 0.01 1-2006 HDI Isocynate 0.00 1-2006 Zinc 0.42 1-2006 Barlum 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | | | | L |
| 1-2006 Naphthalene 0.11 1-2006 MEK 0.04 1-2006 MIBK 0.37 1-2006 Methanol 0.02 1-2006 Butanol 0.01 1-2006 HDI Isocynate 0.00 1-2006 Zinc 0.42 1-2006 Barium 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | | Ethylbenzene | | 0.55 |
| 1-2006 MEK 0.04 1-2006 MIBK 0.37 1-2006 Methanal 0.02 1-2006 Butanol 0.01 1-2006 HDI Isocynate 0.00 1-2006 Zinc 0.42 1-2006 Barium 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | 1-2006 | | | 0.11 |
| 1-2006 Methanol 0.02 1-2006 Butanol 0.01 1-2006 HDI Isocynate 0.00 1-2006 Zinc 0.42 1-2006 Barium 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | 1-2006 | | | 0.04 |
| 1-2006 Butanol 0.01 1-2006 HDI Isocynate 0.00 1-2006 Zinc 0.42 1-2006 Barium 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | 1-2006 | MIBK | | 0.37 |
| 1-2006 HDI Isocynate 0.00 1-2006 Zinc 0.42 1-2006 Barium 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | 1-2006 | Methanol | | 0.02 |
| 1-2006 Zinc 0.42 1-2006 Barium 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | 1-2006 | Butanol | | 0.01 |
| 1-2006 Barium 0.02 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | 1-2006 | HDI Isocynate | | 0.00 |
| 2-2006 Toluene 7.66 2-2006 Methanol 3.74 Total TAPs 15.48 | 1-2006 | Zinc | | 0.42 |
| 2-2006 - Methanol 3.74 Total TAPs 15.48 | 1-2006 | Barium | | 0.02 |
| Total TAPs 15.48 | 2-2006 | Toluene | | 7.66 |
| | 2-2006 | Methanol | | 3.74 |
| · · · · · · · · · · · · · · · · · · · | | Total TAPs | | 15.48 |
| | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | |
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17. HISTORY OF PERMITTED EMISSIONS

List each emission level from facility permits (for unit specific permits, the history should be for the unit of concern only). Group by permit and show totals.

Include as the last entry, the total emissions following the proposed change, entering the project name for "Permit Number" and date of submittal for "Date

| Permit Number | Date Permit Issued | Pollutant | Permitted Emission Rate (tons/yr) |
|---------------------------------------|--------------------|-----------|--|
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EMISSION POINT LIST

GIS Galliano Grand Isle Shipyard Galliano, Lafourche Parish

| Emission | | Operating Rate | Ope | rating Scho | edule |
|----------|---------------------------------------|----------------|--------------|-------------|--|
| Point | Description | (Max) or Tank | Hours | Days | Weeks |
| No. | | Capacity | Day | Week | Year |
| 1-2006 | Paint and Thinner Emissions | 7160 Gal/Yr | 10 | 7 | 52 |
| 2-2006 | Solvent Emissions | 4900 Gal/Yr | 10 | 7 | 52 |
| 3-2006 | Sandblasting Emissions | 1400 Tons/Yr | 10 | 7 | 52 |
| , | | | <u> </u> | | - |
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| | | | | <u> </u> | |
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| | Insignificant Activ | ities List | . , | | |
|--------|---------------------|------------|-----|---|----|
| Diesel | Tank | 500 gal | 24 | 7 | 52 |

GIS Galliano Grand Isle Shipyard Galliano, Lafourche Parish

| Emission | | Permitte | d emission rates are l | isted in tons per yea | 17 | |
|-----------|------|-----------------|------------------------|-----------------------|-------|-------|
| Point No. | PM10 | SO ₂ | NO _x | co | VOC* | Other |
| 1-2006 | 0.43 | | | | 10.77 | |
| 2-2006 | | | | | 11.28 | |
| 3-2006 | 8.75 | | | | | |
| TOTALS: | 9.18 | | | | 22.04 | |

| *\/ | \cap | TAP | Speciation: | |
|-----|--------|-----|-------------|--|
| · v | v. | IAL | Speciation: | |

| | ~~~~~ | _ |
|---------------|-------|-----|
| TÓTALS: | 15.05 | TPY |
| HDI isocynate | 0.000 | TPY |
| Butanol | 0.010 | TPY |
| Methanol | 3.754 | TPY |
| MIBK | 0.370 | TPY |
| MEK | 0.042 | TPY |
| Naphthalene | 0.110 | TPY |
| Ethylbenzene | 0.546 | TPY |
| Toluene | 7.707 | TPY |
| Xylene | 2.511 | TPY |

*Other VOC:

non-VOC TAP Speciation:

 Zinc
 0.418
 TPY

 Barium
 0.016
 TPY

General Condition XVII Activities List:

| 8. | Title VI Stratospheric Ozone | |
|----|---|--|
| A. | Does your facility have any air conditioners or refrigeration equipment that uses CFCs, HCFCs or other ozone-depleting substances? | |
| В. | Does the air conditioner or refrigeration equipment contain a refigeration charge greater than 100 pounds? Yes X No | |
| C. | Do your facility personnel maintain, service, repair, or dispose of any motor vehicle air conditioners (MVACs) or appliances? Yes X No | |
| D. | Cite and describe which Title VI requirements are applicable to your facility in the Regulatory Applicability section of the application. | |
| 9. | LAC 33:I:1701 Requirements | |
| A. | Does the company or owner have federal or state environmental permits identical to, or of a similar nature to, the permit for which you are applying in other states? | |
| | Permits in Louisiana. List permit numbers: LAD985225440 | |
| | Permits in other states (list states): No | |
| В. | Do you owe any outstanding fees or final penalties to the Department? Yes No | |
| | If yes, please explain. | |
| C. | Is your company a corporation or limited liability company? Yes No No If yes, attach a copy of your company's Certification of Registration and/or Certificate of | |
| | Good Standing from the Secretary of State. | |

10. EMISSION POINT LIST AND ANNUAL EMISSION RATE TABLE

Complete the following Emission Point List with the emission point number and description for each emission point. Include also, the associated operating rate or tank capacity and the operating schedule. List all Insignificant Activities under the appropriate heading. For sources claimed to be insignificant based on size or emission rate (LAC 33:III.501.B.5.A), information must be supplied to verify each claim.

Complete the following Annual Emission Rate Table by emission point ID or identifier with the annual emission rates for each appropriate pollutant. Include speciation data as available. Calculate totals for each pollutant and speciation data. List all General Condition XVII Activities under the appropriate heading. Emissions must be listed for each activity. Do not include emissions from General Condition XVII Activities in the totals.

11. APPLICABLE REGULATIONS, AIR POLLUTION CONTROL MEASURES, MONITORING, AND RECORD KEEPING

List in the following Tables 1-5, by emission point ID or identifier, state and federal pollution abatement programs and describe how compliance with these programs will be achieved, including test methods that will be used.

GIS Galliano Grand Isle Shipyard Galliano, Lafourche Perish

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS

| | | | | | | | Γ | | | <u> </u> | Γ | - | | | | Γ | Γ | | | | | | | Γ |
|--------------------|--------------|------------|--------|----------|--------|---|---|-----------|---|----------|---|---|--|---|---|---|---|---|---|---|---|---|---|-------|
| <u> </u> | | | | <u> </u> | | | | | | | | L | | | | | | | | | | | L | |
| | Chapter | | | | | | | | | | | | | | | | | | | | | ! | | |
| | Chapter | | | | | | | | | | | | | | | | | | - | | | | | |
| apter | | | | | | | | - | | | | | | | | _ | _ | | | - | | | | |
| LAC 33:III.Chapter | Chapter | 2123 | × | | | | | | | | _ | | | | | | - | | _ | _ | | | _ | |
| Y | | \dashv | | | _ | | _ | | _ | | _ | _ | | | | | | | _ | _ | _ | - | | - |
| | | 2113 | × | | | | _ | | | | | _ | | | | | | | _ | _ | | | | _ |
| | Chapter | <u></u> | | | × | | | | | | | | | | | | | | | | | | | |
| 40 CFR | Part 68 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| | NESHAP | | | | | | | | | | | | | | | | | | | | | - | | |
| 40 CFR Part 63 | NESHAP | | | | | | | | | | | | | | | | | - | | | | | | |
| 40 (| NESHAP | | | | | - | | | | | | | | | | | | | | | | | | |
| | NESHAP | | | | | | | | | _ | | | | | | | | | | | | | | |
| 40 CFR Part 61 | NESHAP | | | | | | | | | - | | | | | | | | | | | | | | |
| 40 CFR | | - | | | | | | | | | | _ | | _ | - | | | _ | | | | | | · |
| | NESHAP | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 90 | NSPS | | | | | | | | | | | | | | | | | | | | | | | |
| 40 CFR Part 60 | NSPS | | | | | | | | | | | | | | | | | | | | | | | : |
| 40 | NSPS | | | | | | | | | | | | | | | | | | | | | | | |
| Emission | Point No. or | Identifier | 1-2006 | 2-2006 | 3-2006 | | | | | | | | | | | | | | | | | | | |

Key: X - applicable requirement

O - exemption criteria met

blank - does not apply

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GIS Galliano Grand Isle Shipyard Galliano, Lafourche Parish

Galliano, Lafourche Parish

TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS

| ביווואסיטוו אספורני | | Compliance Method/Provision | Notes |
|---------------------|-----------------------------------|---|-------|
| Facility | Housekeeping [LAC33.III.2113] | Best practical housekeeping and maintenance practices shall | |
| ł | | be maintained at the highest possible standards to reduce | |
| | | the quantity of organic compound emissions. Emission of | |
| | | organic compounds shall be reduced wherever feasible. | |
| | | | |
| 1:2006 | Organic Solvents [LAC33.III.2123] | Surface coding operations shall not exceed the emission limits set forth under this rule. | |
| | | | |
| 3-2006 | Control of Fugitive Emissions | All reasonable precautions shall be taken to prevent dust from | |
| | | becoming airborne. This shall include using adequate | |
| | | containment methods during sandblasting operations. | |
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Grand Isle Shipyard Galliano, Lafourche Parish

TABLE 3: COMPLIANCE MONITORING DEVICES OR ACTIVITIES

| Emissian Point No. or Identifier | Applicable Compliance Requirement | Monitoring, Reporting & Recordkeeping (MMR) Method/Provision | Notes |
|----------------------------------|-----------------------------------|---|-------|
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GIS Galliano Grand Isle Shipyard Galliano, Lafourche Parish

TABLE 4: COMPLIANCE TESTING REQUIREMENTS

| Emission Point No. or Identifier | Applicable Compliance Test Method | Criteria Being Tested | Notes |
|----------------------------------|-----------------------------------|-----------------------|-------|
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GIS Galliano Grand Isle Shipyard Galliano, Lafourche Parish

TABLE 5: EQUIPMENT LIST

| Emission Point No. or Identifier | Description | Notes |
|----------------------------------|-------------|-------|
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6. PERSONNEL

a. Manager of facility on location at plant site

| Name | Mike Cox | | |
|----------------------|-----------------------|-----|-------|
| Title | Galliano Yard Manager | | |
| Company | Grand Isle Shipyard | | |
| Suite, Mail Drop, or | Division | | |
| Street or P.O. Box | P.O. Box 820 | | |
| City Galliano | State LA | Zip | 70354 |
| Business Phone | 985-475-5238 | | |

b. Contact at site about air pollution control

| Name | Rhett Monier | |
|------------------------|---------------------|---------|
| Title | HSE Supervisor | |
| Company | Grand Isle Shipyard | |
| Suite, Mail Drop, or l | Division | |
| Street or P.O. Box | P.O. Box 820 | |
| City Galliano | State LA Z | ip 703: |
| Business Phone | 985-475-5238 | |

c. Headquarters or other off-site contact

| Name | | | |
|----------------------|----------|-----|--|
| Title | | | |
| Coany | | | |
| Suite, Mail Drop, or | Division | | |
| Street or P.O. Box | | | |
| City | State | Zip | |
| Business Phone | | | |

d. Person who prepared this report

| a | b c other |
|------------------------|------------------------|
| Name | Leah Roger |
| Title | President |
| Company | Enviro-Sense, Inc. |
| Suite, Mail Drop, or D | vision |
| Street or P.O. Box | 609 South State Street |
| City Abbeville | State LA Zip 7051 |
| Business Phone | 337-898-2823 |

CERTIFICATION: I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Emission Inventory Questionnaire (EIQ) for Air Pollutants, including all attachments thereto, are true, accurate, and complete.

| Sianatura | o f | rasnans | عاطا | official(s) | (See 40 CFR 70.2) |
|-----------|-----|---------|------|-------------|-------------------|
| | | | | | |

Date

118/06

LDEQ-EDMS Document 35876697, Page 39 of 59

Emission Inventory Questionnaire

Department of Environmental Quality

Office of Environmental Services

LOUISIANA

Emission Inventory Questionnaire (EIQ)

P.O. Box 4313 for Air Pollutants Baton Rouge, LA 70821-4313 (225) 219 - 3181

| l | Company Name | | Owner | For Permits Division Use Only |
|---|--|---|--|--|
| l | Grand Isle Shipyard | | ☑ Operator | |
| Please | Parent Company (if Company Name given above is a division) | | | |
| type | | | | |
| or | Plant Name | | - | A STATE OF THE PROPERTY OF |
| print | GIS Galliano | | | |
| | Nearest Town | Parish | | |
| | Galliano | Lafourche | | was placed and the control of the co |
| · - · | Agency Interest Number | CDS Number | | THE WAR PROPERTY WAS AND THE WAR |
| | 116837 | | | 100 100 PP 14 14 14 14 14 14 14 14 14 14 14 14 14 |
| 2. TYPE O | a. ONLY presently existing emissions . | emission applicat presently existing | ion for a permit, va emissions expected | ions associated with an riance, or exemption AND it to be still existing after application becomes |
| 3. CONFI | DENTIALITY | | | - |
| If you are rea | questing confidentiality for all information, except air pollutant emission re | ates, check box. | | |
| (You must atto | ach justification for confidentiality request) | | | |
| Days of week Days per yea Peak Product operati Approximate | NIZATIONAL ACTIVITIES A normally NOT operating: An facility typically operates: In season (list months): Ing schedule: In unmber of employees at this location: Silities that, as a whole, operate intermittently: | Wed | 10 | Fri Sat Sun |
| | | | | |
| Ownership | corporation, partnership, or sole proprietorship | | regulated utility | municipal government |
| Ownership | corporation, partnership, or sole proprietorship state government federal gove | ernment | regulated utility other, specify: | municipal government |
| Industrial c | state government federal government federal government federal government State government federal governmen | Code(s) that apply | other, specify: to your facility: | |
| Industrial c | state government federal gove | Code(s) that apply | other, specify: to your facility: | |
| Industrial c | state government federal government federal government federal government State government federal governmen | Code(s) that apply | to your facility: | |
| Industrial c Description This facility | state government federal governm | Code(s) that apply attachments if more | to your facility: space is neede | |
| Industrial c Description This facility | state government federal governm | Code(s) that apply attachments if more | to your facility: space is neede | |
| Industrial c Description This facility painting, g | state government federal governm | Code(s) that apply attachments if more | to your facility: space is neede | |
| Industrial c Description This facility painting, g | state government federal governm | Code(s) that apply attachments if more | to your facility: space is neede | |
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| Industrial c Description This facility painting, g | state government federal governm | Code(s) that apply attachments if more | to your facility: space is neede | |
| Industrial c Description This facility painting, g | state government federal governm | Code(s) that apply attachments if more | to your facility: space is neede | |

5. SUMMARY OF EMISSIONS FOR ENTIRE PLANT AS A WHOLE

Rates given should correspond in most cases to the sum of the individual average rates of the point sources listed on the le Point Source/Area Source forms.

| Emission Rate | Emission Rate |
|---------------|--|
| | (tons/yr) |
| 5.05 | 9.18 |
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| | |
| 12.11 | 22.04 |
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| 8.51 | 15.48 |
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| | (lbs/hr) 5.05 |

10. COMPLIANCE WITH FEDERAL REQUIREMENTS

Statement for Applicable Requirements for Which the Source is in Compliance

Based on the information and belief, formed after reasonable inquiry, the company and facility referenced in this application is in compliance with and will continue to comply with all applicable requirements pertaining to the sources covered by the permit application, as outlined in Tables 1 and 2 in the permit application.

For requirements promulgated as of the date of this certification with compliance dates effected during the permit terms, I further certify that the company and facility referenced in this application will comply with such requirements on a timely basis and will continue to comply with such requirements.

CERTIFICATION: I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Application for Approval of Emissions of Air Pollutants, including all attachments thereto, are truly accurate and complete.

CERTIFICATION: I certify that the engineering calculations, drawings, and design are true and accurate to the best of my knowledge.

11. PERSONNEL

a. Responsible Officer

| Name | Bryan Prege | nt | | | |
|----------|------------------|------------------------|-------|-----|-------------|
| Title | Corporate St | cretary | | | |
| Compan | y C | rand Isle Shipyard, In | с | | |
| Suite, M | ail Drop, or Div | sion | | | |
| Street o | r P.O. Box | P.O. Bo | x 820 | | |
| City | Galliano | State | LA | Zip | 70354 |
| Business | Phone 9 | 35-475-5238 | | | |

| b. Profession | onal Engineer | <u> </u> | | ···· | |
|-----------------|----------------|-----------|-------------|--------|-------|
| Name | Leah Rog | er | | | |
| Title | President | | | | |
| Company | Enviro-Se | nse, Inc. | | | |
| Suite, Mall Dro | p, or Division | | | | |
| Street or P.O. | Вох | 609 So | uth State S | Street | |
| City Abb | eville | State | LA_ | Zip | 70510 |
| Business Phone | | 337-89 | 8-2823 | | |

| Signature of Professional E | ngineer | |
|-----------------------------|-----------------------|--|
| Date | | |
| Registration No. | State of Registration | |
| | | |

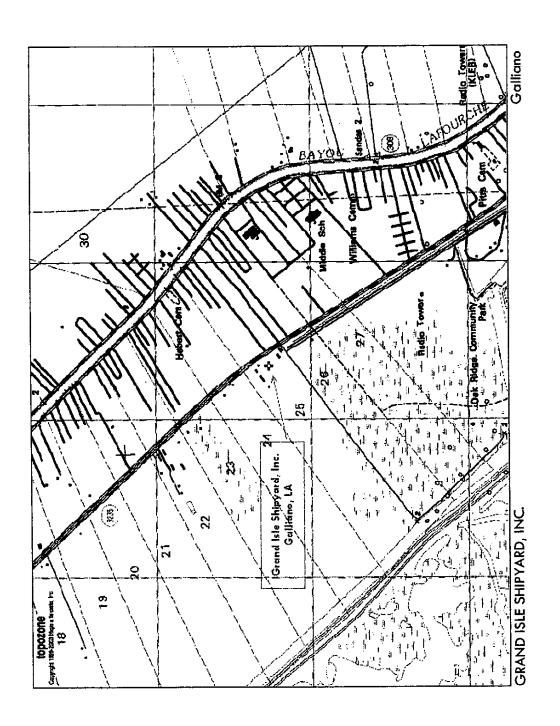
| Single Point Legistra Point Legistra Point Legistra Point Legistra Point Legistra Point Legistra Legistra Point Legistra | Department of Environmental Quality | ental Quality | | | | | LOUISIANA | ANA | | | | | | | |
|---|-------------------------------------|-----------------|-----------------|------------------|----------------|---------------------|---------------------|------------------|------------------|---------------|--------------|-------------|--------------|------------|-------------------------|
| State Post 2014 Post State Post Post State Post Post State Post | Office of Environments | al Services | | | | | | | | | | | | | |
| Figure Particle | P.O. Box 431 | | | | | SINGLE | OINT/AREA | /VOLUME: | SOURCE | | | | | | |
| | Baton Rauge, LA 708 | 321-4313 | | | | Emissio | n Inventory G | vestionnair. | e (EIQ) | | | | | | |
| | (225) 219 - 31 | 181 | | | | | tor Air Po | liutants | | | | | 1 | | |
| Condition Con | | | | | Plant location | | | | | | | <u> </u> | ate of Subm | ittal | |
| 1-2006 Paris Pa | Ğ | and Isle Ship | oyard | | i | 7 | 3838 Hwy. 3 | 235, Gallic | ano, LA 70 |)354 | | | | Septembo | er 30, 2006 |
| 1-2006 Paint and Thinne Emissions Paint and Emissions | Source ID Number | | Descriptive r | name of the | equipment ser | | ack or vent | 4 | Approximate | location c | of stack or | vent | | | |
| 1-2006 State Patint and Thinnet Emissions State Patint and Thinnet Emissions State Patint and Thinnet Emissions State | | | | | | | | | JTM Zone 1 | . or | <u>기</u> 15 | | izontal Co | ordinate: | 763338 mE |
| Physical Physical Pigneter (#) or node Stack Goal Esta | ŀ | | | Paint an | d Thinner E | missions | | | | | _ 15 | | /ertical Co | ordinate: | 3256291 mN |
| Physical Type of tool lated la | Stack and Discharge | | | ft) or stack | Stack (| Sas Exit | Stack gas flov | wat process or | | ack gas exi | t Velocity E | tate of Con | struction/Ma | dification | Operating Rate (Max) or |
| Charged Cha | Physical | (T) above grade | | area (ff") | | ature (*F) | | (#²/min) | | (m/se | | | • | | tank capacity |
| Type of Note Ty | Characteristics Changed | | | ≠ ¯≠ ⊝⊝ | | | | | | | | | | | 7160 Gal/Yr |
| vel a | | Type of fuel us | ed and heat inp | out (See Instruc | :tions) | | | Perce | int of annual t | hroughput o | - | Noma | operating t | ine | Normal |
| vel 0 0 10 10 10 10 10 10 | | Type c | of Fuel | Heat Input | t (AMBTU/IN) | Oper | arting | · pollutan | nts through this | s emission po | oint | ō | this point | | Operating Rate |
| Pollutant Specific Information Characteristics 25% 25% 25% 25% 10 7 32 7160 Pollutant Specific Information Emission Rolls Emission Rolls Emission Rolls Emission Rolls Total Concentration in Add, Change, Concentration in Add, Change, Concentration in Add, Change, Concentration Method October (PM, p) Add Change, Concentration in Add, Change, Concentration in Add, Change, Concentration Method October (PM, p) Add Change, Concentration in Add Change, Concent | | | | | | | | Dec-Feb | | - | Sep - Nov | hrs/day | day1/wk | wk/yr | |
| Pollutant Specific Information Emission Rotes Control Equipment Emission Rotes Emission Rotes Control Equipment Emission Rotes Control Equipment Emission Rotes Control Equipment Emission Rotes Control Emission Rotes <td>٩</td> <td></td> <td></td> <td></td> <td></td> <td>Charac</td> <td>eristics</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | ٩ | | | | | Charac | eristics | | | | | | | | |
| Pollutant Specific Information Control Equipment Fernission Rates Femission Rates Femission Rates Femission Rates Concentration in Rates Concent | v | | | | | | | 25% | - | 25% | 25% | 10 | 7 | 52 | 7160 Gal/Yr |
| Pollutant Pollutant Pollutant Income Pollutant Pollu | Air Pollutant S | pecific Ir | formativ | no | | | | | | | , , | | ļ | | |
| Pollutant Code Moximum Montal (PM,10) Average (Ho,10) | | | | Control | quipment | | Emission Rc | stes | | Emissic | | Add, Ch | ange, | Conc | Concentration in gases |
| Dioxide (PM ₁₀) 0.24 0.24 0.24 0.43 2 Add Dioxide (SO ₂) 1 7 4 4 4 gen Dioxide (NO ₂) 1 7 4 4 4 gen Dioxide (NO ₂) 1 7 4 4 4 4 4 on Monoxide (NO ₂) 1 1.38 2.51 2 Add 4 <td< td=""><td>Pol</td><td>Jutant</td><td></td><td>Code</td><td>Efficiency</td><td>Average (lbs/hr)</td><td>Maximum (lbs/hr)</td><td>Annual (to</td><td>on/yr)</td><td>Estimation A</td><td>Wethod</td><td>or Delete</td><td>Code</td><td>v</td><td>exiting at stack</td></td<> | Pol | Jutant | | Code | Efficiency | Average (lbs/hr) | Maximum (lbs/hr) | Annual (to | on/yr) | Estimation A | Wethod | or Delete | Code | v | exiting at stack |
| Dioxide (SO ₂) Dioxide (SO ₂) Control (MO ₂) Control (M | Particulate Matter (F | (01Wc | | | | 0.24 | 0.24 | 0.4 | 3 | 2 | | Ade | _ | | gr/std ft³ |
| gen Dioxide (NO _x) Sept. Dioxide (NO _x) 5.92 5.92 10.77 2 Add VOC (including these litered block) 1.38 1.38 2.51 2 Add NOC (including these litered block) 0.03 0.03 0.05 2 Add nee 0.03 0.30 0.55 2 Add thalenee 0.06 0.06 0.11 2 Add ihalenee 0.02 0.09 2 Add including anoli 0.01 0.01 0.01 2 Add anoli 0.01 0.01 0.01 2 Add noli 0.00 0.00 0.00 2 Add socynatile 0.00 0.00 0.00 2 Add | Sulfur Dioxide (SO ₂) | | | | | | | | | | | | | | ppm by val |
| On Monoxide (CO) S.92 5.92 5.92 10.77 2 Add VOC [including thate listed below) 1.38 1.38 1.38 2.51 2 Add ne 0.03 0.03 0.03 0.05 2 Add benizene 0.03 0.30 0.55 2 Add ihalene 0.06 0.06 0.11 2 Add ihalene 0.02 0.04 2 Add including 0.01 0.01 0.03 0.04 2 Add including 0.01 0.01 0.01 0.01 2 Add Add including 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 | Nitrogen Dioxide (N | 0,0 | | | | | | | | | | | | | ppm by val |
| VOC [including latest billed) 5.92 5.92 10.77 2 Add ne 1.38 1.38 2.51 2 Add ne 0.03 0.03 0.05 2 Add benzene 0.03 0.30 0.55 2 Add ihalene 0.06 0.06 0.01 0.01 2 Add in anal 0.02 0.02 0.04 2 Add 0.04 out 0.01 0.01 0.01 0.02 0.03 2 Add nol 0.01 < | Carbon Monoxide (C | <u>(0)</u> | | | | | | | | | | | | | ppm by vol |
| ne 1.38 1.38 1.38 2.51 2 Add ne 0.03 0.03 0.05 2 Add benzene 0.30 0.30 0.055 2 Add thalene 0.06 0.06 0.11 2 Add anol 0.02 0.02 0.04 2 Add anol 0.01 0.01 0.02 2 Add ol 0.01 0.01 0.02 2 Add secynate 0.00 0.00 0.00 2 Add Add 0.00 0.00 0.00 2 Add | Total VOC (including those | listed below) | | | | 5.92 | 5.92 | 10.7 | _ | 2 | | Adı | | | ppm by vol |
| henzene 0.03 0.03 0.055 2 Add benzene 0.30 0.30 0.55 2 Add ihalene 0.06 0.06 0.11 2 Add anol 0.02 0.02 0.04 2 Add anol 0.01 0.01 0.02 2 Add nol -0.01 0.01 0.01 0.01 2 Add socynate 0.00 0.00 0.00 2 Add Add | Xylene | | | | | 1.38 | 1.38 | 2.5 | | 2 | | Adı | | | ppm by vol |
| benzene 0.30 0.30 0.055 2 Add Ithalene 0.06 0.011 2 Add anol 0.02 0.02 0.04 2 Add anol 0.20 0.20 0.37 2 Add nol 0.01 0.01 0.02 2 Add socynate 0.00 0.00 0.00 2 Add | Toluene | | | | | 0.03 | 0.03 | 0.0 | 2 | 2 | | Adı | | | ppm by val |
| tihalene 0.06 0.05 0.11 2 Add anol 0.02 0.02 0.04 2 Add anol 0.20 0.20 0.37 2 Add ol 0.01 0.01 0.02 2 Add socynate 0.00 0.00 0.00 2 Add | Ethylbenzene | | | | | 0.30 | 0.30 | 0.5 | 2 | 2 | | Adı | | | lov yd mod |
| anol 0.02 0.02 0.04 2 Add 0.00 anol 0.20 0.20 0.37 2 Add 0.01 0.01 0.02 0.02 2 Add 0.01 0.01 0.02 2 Add 0.02 0.00 0.00 0.00 0.00 2 Add 0.00 0.00 0.00 2 Add 0.00 0.00 0.00 2 Add 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | Naphthalene | | | | | 90.0 | 90.0 | 0.11 | | 2 | | Αdι | | | ppm by vot |
| and 0.20 0.20 0.37 2 Add ol 0.01 0.01 0.02 2 Add ol -0.01 0.01 0.01 2 Add iocynate 0.00 0.00 0.00 2 Add | MEK | | | | | 0.02 | 0.02 | 0.0 | - | 2 | | Adt | | | py wal |
| nate 0.01 0.01 0.02 2 Add Add 0.00 0.00 0.00 2 Add Add Add 0.00 0.00 2 Add | MIBK | | | | | 0.20 | 0.20 | 0.3 | | 2 | | Adt | _ | | loy by vol |
| ynate | Methanol | | | | | 0.01 | 0.01 | 0.0 | 2 | 7 | | Adt | | | low by vol |
| 0.00 0.00 2 Add | Butanol | | | | | -0.01 | 0.01 | 0.0 | | 2 | | Adı | _ | | ppm by val |
| | HDI Isocynate | | | | | 0.00 | 0.00 | 0.0 | 0 | 2 | | Adı | | | lov yol |
| | | | | | | | | | | | | | | | |

| Office of Environmental Services P.O. Box 4313 Baton Rouge, LA 70821-4313 | | | | CONSIANA | ANA | | | | | | | |
|---|--|--------------------------|------------------------------------|---|---|---|------------------------------|--------------|----------------|--|-------------|--|
| (225) 219 - 3181 | | | SINGLE PO Emission | SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants | /VOLUME : Uestionnair | SOURCE e (EIQ) | | | i | | | |
| Company Name | | Plant location and | and name | | | | • • • | | | Date of Submitta | ittal | |
| Grand Isle Shipyard | | | 18 | 8838 Hwy. 3235, Galliano, 1A 70354 | 235, Gallic | no, IA 7 | 0354 | | | | Septembe | September 30, 2006 |
| Source ID Number Descri | Descriptive name of the equipment served | equipment ser | ved by this stack or vent | ck or vent | 7 3 | Approximate location of stack or vent UTM Zone no. | e location g | of stack or | | Horizontal Coordinate: | ordinate: | 763338 mE |
| 2-2006 | Sol | Solvent Emissions | SUC | | | | |]16 | | Vertical Coordinate: | ordinate: | 3256291 mN |
| harge Stack Height (ff) obove grade | Diameter (ft) or stack discharge area (ft²) | Stack Gas Temperature | Stack Gas Exit Temperature (°F) | Stack gas flov | Stack gas flow at process conditions (ft ³ /min) | | stack gas exit V (ft/sec) | t Velocity C | ate of Co | Stack gas exit Velocity Date of Construction/Modification (ft/sec) | odification | Operating Rate (Max) or tank capacity |
| Characleristics Changed | ±° ± | | | | | | | - | | | | 4900 Gal/Yr |
| Type of fuel used and heat input (See Instructions) | neat input (See Instruc | tions) | | | Perce | Percent of annual throughput of | throughput o | <u>_</u> | Norma | Normal operating time | ime | Nomal |
| Type of Fuel | Heat Input | Heat Input (wwBTU/hr) | Operating | fing | pollutar | pollutants through this emission point | is emission p | oint | | of this point | | Operating Rate |
| Fuel | | | | | Dec-Feb | Mar - May | Jun - Aug | Sep - Nov | hrs/doy | days/wk | wh/yr | |
| q | | | Characteristics | ristics | | | _ | | | | | |
| Ü | | | | | 25% | 75% | 72% | 25% | 2 | _ | 52 | 4900 Gal/Yr |
| Air Pollutant Specific Information | nation | | | | | | | | | | | |
| | Control | Control Equipment | | Emission Rates | otes | | Emission | u o | Add, Change, | lange, | Ö | Concentration in gases |
| Pollutant | Code | Efficiency | Average (lbs/hr) | Maximum (lbs/hr) | Annual (ton/yr) | on/yr | Estimation Method | Wethod | or Delete Code | Code | 9 | exiting at stack |
| Particulate Matter (PM ₁₀) | | | | | | | | | | | | gr/std ft³ |
| Sulfur Dioxide (SO ₂) | | | | | | | | | | | | lav td mad |
| Nitrogen Dioxide (NO _x) | | | | | | | | | | | | ppm by vol |
| Carbon Monoxide (CO) | | | | | | | | | | | | lay val |
| Total VOC (including those listed below) | | | 6.20 | 6.20 | 11.28 | 82 | 2 | | Add | 70 | | lov yd mog |
| Toluene | | | 4.21 | 4.21 | 7.66 | 9 | 2 | | Add | P | | lov yd moga |
| Methanol | | | 2.05 | 2.05 | 3.74 | 4 | 2 | | Add | 9 | | р маш р |
| | | | | | | | | — | | | | |

| | | | | | | | | | | | | | | | _ |
|--|---|--|-----------------------|----------------------|---------------------|--|--------------------------------------|----------------|--|------------------------|----------------|---|-----------|-------------------------|---|
| Department of Environmental Quality | ntal Quality | | | | | COUISIANA | ANA | | | | | | | | |
| Office of Environmental Services | al Services | | | | | | | | | | | | | | |
| P.O. Box 4313 | <u> </u> | | | | SINGLE | SINGLE POINT/AREA/VOLUME SOURCE | V/VOLUME | SOURCE | | | | | | | |
| Batan Rouge, LA 70821-4313 | 21-4313 | | | | Émissio | Emission Inventory Questionnaire (EIQ) | Avestionnair | .е (EIQ) | | | | | | | |
| 1816 - 915 (225) | 81 | | | | | for Air Pollutants | ollutants | | | | | | | | |
| Company Name | | | | Plant location and | and name | | | | | | - | Date of Submittal | itai | | |
| ag B | Grand Isle Shipyard | ard | | | 1, | 18838 Hwy. 3235, Galliano, LA 70354 | 1235, Gallic | ano, LA 7 | 70354 | ! | | ~, | Septembe | September 30, 2006 | |
| Source ID Number | | Descriptive name of the equipment served by this stack or vent | e of the e | quipment ser | ved by this st | ack or vent | | Approxima | Approximate location of stack or vent | of stack or | vent | | | | |
| | | | | | | | | UTM Zone no. | .00 | ✓ 15 | Š | Horizontal Coordinate: | ordinate: | 763338 mE | |
| 3-2006 | | | Sandb | Sandblasting Emissic | ssions | | | | | 16 | | Vertical Coordinates | ordinate: | 3256291 mN | |
| Stack and Discharge | Stack Height (ft) above grade | Diameter (ft) or stack discharge area (ft ²) | · stack | Stack C | Stack Gas Exit | Stack gas flor | Stack gas flow at process conditions | | Stack gas ex | it Velocity | ate of Con | Stack gas exit Velocity Date of Construction/Modification (H/sec) | | Operating Rate (Max) or | |
| Chameleristics | | , | . (| | | | - | ••• | | | | | | | _ |
| Changed | | | = ~± DO | | | | | | | | | | | 1400 Tons/Yr | |
| | Type of fuel used and heat input (See Instructions) | and heat input (\$ | see Instruct | ions) | | | Perce | ent of annual | Percent of annual throughput of | 5 | Norma | Normal operating time | ae E | Nomai | _ |
| | Type of Fuel | | Heat Input (мм8т∪/hr) | (MM8TU/hr) | Oper | Operating | pollutar | nts through th | pollutants through this emission point | oint | õ | of this point | | Operating Rate | |
| Fuel | | | | | | | Der-Feb | Mor - May | Jun - Aug | Sep . Nav | hrs/day | days/wk | wk/yr | | _ |
| ۵ | | | | | Charac | Characteristics | | | | | | | | | |
| v | | | | | | | 75% | 25% | 25% | 25% | 10 | 7 | 52 | 1400 Tons/Yr | |
| Air Pollutant Specific Information | pecific Inf | ormation | | | | | | | | | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | Control Equipment | Uipment | | Emission Rates | ates | | Emission | 5 | Add, Change, | ange, | Conce | Concentration in gases | |
| Pol | Poliutant | | Code | Efficiency | Average (lbs/hr) | Maximum (Ibs/hr) | Annual (ton/yr) | on/yr) | Estimation Method | Method | or Delete Code | Code | ê | exiting of stack | |
| Particulate Matter (PM ₁₀) | M ₁₀) | | | | 4.81 | 4.81 | 8.75 | 2 | က | | Add | - | | gr/std fr³ | |
| Sulfur Dioxide (SO ₂) | | | | | | | | | | | | | | lov vd maa | |
| Nitrogen Dioxide (NO _x) | (×C | | | | | | | | | | | | | ov yd maa | |
| Carbon Monoxide (CO) | (O | | | | | | | | | | | | | lov yd mod | |
| Total VOC (including those listed below) | sted below) | | | | | | | | | | | | | opm by vol | |
| | | | | | | | | | | | | | | py val | |
| | | | 1 | | | | | 1 | | | | | | ррт by val | |
| | | - | 1 | | | | | | | | | 1 | | lay val | |
| | | + | | | | | | 1 | | | | | | ррт Бу vol | |
| | | 1 | † | | | | | + | | | | + | | ppm by val | |
| | | 1 | | 1 | | | | + | | | | + | | pow by vol | _ |
| | | | | | | | | | | | | | | pp wol | |

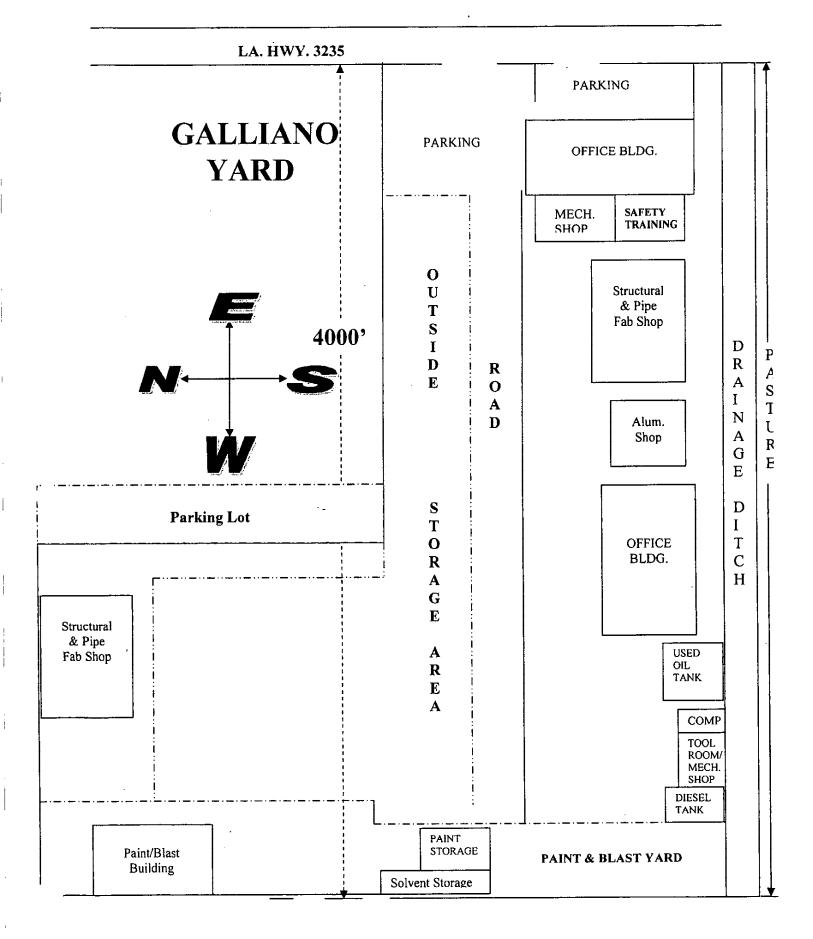
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Figure 1 Topographical Map



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Figure 2 Site Map



LDEQ-EDMS Document 35876697, Page 50 of 5:

Appendix B Housekeeping Plan

Grand Isle Shipyard, Inc. Housekeeping Plan

Grand Isle Shipyard (GIS) has developed and instituted a written plan to prevent or minimize volatile organic (VOC) emissions at its Galliano facility. This plan satisfies the Louisiana Department of Environmental Quality's (LDEQ) requirement for the development of a written housekeeping plan.

Guidelines outlined in this plan should be reviewed with appropriate employees to assist personnel in practicing "good housekeeping and maintenance" to reduce the quantity of organic compound emissions from the facility.

Copies of this plan should be prominently posted throughout the facility. An additional copy of it should be placed in the facility permit file where it can be readily accessed by an LDEQ inspector.

VOCs are defined as hydrocarbons heavier than methane and ethane. Some typical examples of VOC emissions are the vapors that escape from an open can of paint or solvent, etc. Since our corporate policy is to have a minimal impact on the environment, we have defined "good housekeeping practices" to include the following:

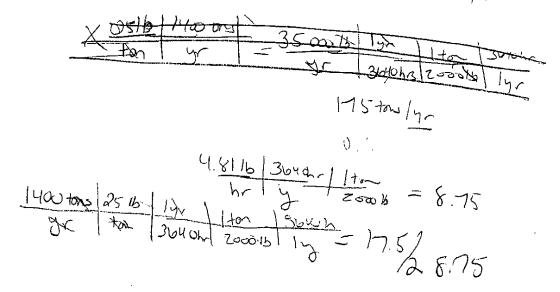
- 1. Keep all containers that store volatile materials tightly sealed when not in use.
- 2. Prevent spills wherever possible. Should one occur, clean it up immediately. Eliminate or minimize evaporation from spills.
- 3. Store dirty rags used to clean up spills in a closed container until they can be properly disposed.
- 4. Store volatile waste materials in sealed containers.

Grand Isle Shipyard, Inc. Galliano, LA Air Emission Estimations

SANDBLASTING EMISSIONS

| Sandblasting is done in outdoors | within a screened area, during | an 10 hour period per day, s | even days per week. 36 | 40 hrs/40 |
|----------------------------------|--------------------------------|--|------------------------|--|
| | X 25-16 | 5 /1/20 to 350 00/05/ | Tolor lyn | <i>! [</i> ' |
| annual amount sand used: | 1400 tons | The second secon | ZOOYL 3640 LM | • |
| containment efficiency: | 50 % | | 3640 ha | |
| emission factor: | 25 lb/ton sand blasted * | | | |
| * CARB Emission Factor | bruled and | 0516 1/400 tons | | |
| PM ₁₀ : 8.75 tons | i/yr | ton! | | |
| 4.81 lb/l | hr | ,001 | | |
| Insignificant Point Source (L | AC33.III.501.b-5) | 1400 ton 05/b | 3500 13 14 3640 | = 9.61 |
| • | • | | -0.0 | , "~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |

This facility has a 500 gallon diesel tank onsite to fuel equipment. This tank falls below the 10,000 gallon threshold for organic liquids with a vapor pressure less than 0.5 psia. Diesel has a vapor pressure of 0.009 psia.



Salliano Yard Grand Isle Shipy Galli Air Emission Estinguions

Yearly Emissions

| AA1 10/01 | ē | 184.41 | 113.28 | 37.15 | 876 08 | 448.13 | 1936 69 | 0.00 | 0.00 | 0.00 | 232.77 | 17.84 | 69 63 | 40.53 | 25.15 | 3981.66 | | 30.00 | 3832.50 | 189.00 | 80 | 145.60 | 4197.10 | | 22787.94 | 127 87.94 | (大学) | 3096670 | (15.48) | | |
|--------------------|--------------|--------|---------|--------|---------|---------|---------|--------|-----------------|-------------------|---------|-----------|-----------|---------------|-----------------|---------------|---------|--------|---------|---------|---------------|---------------|-----------------|--------------|-------------|-----------------|---|---------------|---------|--------------|-----------|
| Poet | يّ | 800 | 000 | 0.00 | 000 | 8 | 000 | 000 | 00.0 | 000 | 000 | 0.00 | 88 | 000 | 000 | 0.00 | | 0.00 | | 000 | 000 | 힞 | 9.00 | 4 | 0.00 | 0.00 | 3 | 2 | Ħ | | 309/01.70 |
| malios | \downarrow | 90.0 | 00.0 | 00.0 | 32.74 | 00:0 | 000 | 90.0 | 00:0 | 0.00 | 900 | 800 | 8 | 90.0 | ō | - | | 0.00 | 00 | 0.00 | 8 | | 4 | | 00:0 | H | | L | Ц | | 6,70 |
| 2017 | ā | | | | | | | | | | | | | | | 12.74 | | | | | | | 0.0 | | L | 800 | 子は経験を表しる | 32,73809 | | | 60 |
| SIDIOAINA IXINAIO | iqi | 0.00 | 00.0 | 6.72 | 00.0 | 00.0 | 664.88 | 0.00 | 000 | 80 | 143.07 | ŏ | 16.0 | 6 05 | 8 | 836.78 | | 0.00 | 0.0 | 0.00 | 0.0 | Ö | 0.0 | | 0.00 | 8 | 1. 2. A. S. S. | 836.77.57 | (0.42) | | W. |
| Kinglo | ő | 000 | 00.0 | 00.0 | 000 | 000 | 000 | 000 | 000 | 000 | 8 | 8 | 8 | 000 | 8 | 0.00 | | 000 | 0.00 | 000 | 0.00 | 000 | 0.0 | | 0.00 | 80 | Same Sign | | (0) | | |
| enery's | ā | 8 | 00 G | 0.00 | 0.00 | 0.00 | 00.0 | 0.00 | 00.0 | 0.00 | 8 | 8 | 8 | 0.00 | 80 | 0.00 | | 00.0 | 9.00 | 000 | 8 | 8 | 8.0 | | 0.0 | 8.0 | A. 1. 18 | • | (0) | | |
| HOI ISOSY VOIS | <u> </u> | 8 | 00.0 | 00.0 | 00'0 | 0.00 | 0.00 | 0.00 | 00.0 | 0.00 | 8 | 0.37 | 8 | 0.0 | 8 | 0.37 | | 0.00 | 80.0 | 000 | 8 | 2 | 0.00 | | 0.00 | 0.00 | 39.4 | 0.371 | (0) | | |
| eby debloated | \downarrow | 0.00 | 000 | 0.00 | 0.00 | 00.0 | 000 | 0.00 | 000 | 000 | 000 | 80 | 8 | 000 | 8 | _ | | 000 | 000 | 000 | 8 | 됭 | 4 | | 0.00 | H | **** | \vdash | Н | | |
| 1000Ha | Į. | | | | | | | | | | | | | | | 0.00 | | | | | | | 8 | | L | 8 | 等数文化2 | • | 9 | | |
| enoxell anoxell | ě | 00:0 | 00'0 | 00'0 | 00 0 | | | 00.00 | 00.0 | | 000 | | | 0.00 | 800 | 0.00 | | 00'0 | | 80 | | | 0.00 | | 0.00 | 8 | | | ĝ | | |
| | 20 | 00.0 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 00'0 | 8 | 8 | 000 | 000 | 00.0 | 000 | 0.00 | | 00'0 | 000 | 0.00 | 9.80 | 000 | 800 | | 0.00 | 8.0 | | ۰ | 6 | | |
| lonolua | iĝ | 8.0 | 00 0 | 00.0 | 0.00 | 00.0 | 00.0 | 00.0 | 00.00 | 000 | 8 | 8 | 8 | 18.71 | 2 08 | 20.79 | | 00.0 | 0.00 | 8 | 0.0 | 8 | 8 | | 0.00 | 0.00 | | 20.78869 | (10.0) | | |
| 1000yow | \ \ !. | 8 | 0.00 | 0.00 | 0.00 | 0.00 | 000 | 0.00 | 0.00 | 0.00 | 000 | 0.00 | 35.72 | 0.00 | 0.00 | _ | | 000 | 00.0 | 0.00 | 8 | 8 | 4 | | 7472.01 | - | \$ 10 miles | ┢ | ₩. | | |
| YBIN | ž | L | | | _ | | | • | • | | | | _ | | | 35.72 | | 2 | | | | | 0.00 | 逐級 | | 7472.01 | 致傷 海 | L | (3.7.5) | | |
| | Į. | 73.31 | 000 | 000 | 0.00 | 8 | 665.71 | 000 | 000 | 000 | 000 | 000 | 8 | 8 | 000 | 739.02 | | 000 | 0.00 | 000 | 0.00 | 8 | 0.00 | | 000 | 8 | 1.00 | 739.0192 | (0.37) | | |
| Yaw | Į. | 83.03 | 00.0 | 90.0 | 0.00 | 800 | 0.00 | 0.00 | 0.00 | 0.00 | 80 | 800 | 8 | 8 | 000 | 63.03 | | 0.00 | 00.0 | 000 | 0.00 | 8 | 8 | | 000 | 00.0 | 100000000000000000000000000000000000000 | 83.03 | П | | |
| Maphihalan | Ļ | 0.00 | 0.00 | 0.00 | 8 | 8 | 00.0 | 00.0 | 80 | 00 | 000 | 8 | 0.00 | 0.00 | 0.00 | | | 30.00 | 0.00 | 189.00 | 8 | 8 | 4 | | 0.00 | _ | N.X. | - | Н | | < |
| Elhylbenzen. | ق | | | | | | | | | | | | | | | 0.00 | | L | | | | | 219.00 | | L | 8 | B | ā | Ц | | Ì |
| | <u>ة</u> | 800 | 0.0 | 80 | 153.06 | 8 | 122.54 | 0.00 | 0.00 | 00.0 | 0.0 | 4.37 | 0.00 | 0.00 | 8.75 | 28872 | | 00.0 | 766.50 | 0.00 | D.0D | 36.40 | 802.90 | | 0.0 | 8 | 54.00 | 1091.62 | (0.55) | | , |
| enewlo! | · a | 00:0 | 000 | 000 | 00.0 | 000 | 00.0 | 00.0 | 00.0 | 00.0 | 89.70 | 8.73 | 0.00 | 0.00 | 00:0 | 98.43 | | 00.0 | 00.0 | 0.00 | 0.00 | 00.00 | 0.00 | 題を認める。大 | 15315.93 | 15315.93 | | 15414.3644 | (7.7) | | - |
| enell ^X | يَّة | 28.07 | 13,28 | 30.43 | 690 28 | 448 13 | 483.55 | 00.0 | 000 | 00:00 | 00.0 | 4.37 | 17.86 | 15.77 | 14.31 | 1846.06 | | 00.0 | 3066.00 | 0.00 | 0.00 | 109.20 | 3175.20 | | 0.00 | 800 | 2.00 | 5021.2563 | Н | | 7 |
| 301 | <u></u> | 150.25 | 3681.60 | 00 996 | 1150.46 | 3863.20 | 3355 06 | 89.18 | 00.0 | 18'90* | 1066.00 | 21.73 | 160.74 | 42.00 | 4 60 | 14960.13 | | 300.00 | 3832.50 | 2100.00 | 195.30 | 20 | 6573.40 3 | | 22554.70 | 22554.70 | 10 | 44083 2308 50 | ш | PKing | A COVA |
| Aysued | \downarrow | [| 6 | 0 | 0 | _ | L | 0 | 6 | | S | و | o | 13 | ٥ | ٤ | Nec Sta | L | 0 | | _ | Н | 9 | 100 | <u> </u> | Ľ | 2 X X | 440 | + | 9 | \gtrsim |
| Invert | hs/ad | 13.18 | 28 | 2 | 12.20 | 996 | 27.60 | 12.90 | 2 | 8.14 | 23.00 | 10.60 | 23.50 | 21.03 | 17.50 | L | | 7 50 | 7.30 | 7.50 | 6.51 | 7.28 | | | 8 | H | | - | (TPT) | | # |
| | 18 | 9 | 1600 | 420 | 820 | 0091 | 1200 | 9 | 9 | 20 | 760 | 2 | ę | 15 | 2 | 6265 | 28 | \$ | 525 | 280 | 30 | 20 | 895 | | 4900 | 4900 | | 12060 ac | | | |
| Paint | a E C Z | E. | 388 | 385 PA | 400 | 450 HS | 68 HS | 78 HB | 861 Accelerator | 866 M Accelerator | 6:0 | 134 HG | מיוו | 52 Interzinc | 475HS Intergard | Paint Totals: | | 101# | 465 | #924 | GTA 7 | GTA 415 | Thinner Totals: | SOLVENTS 1 | 7119 IMEKI | Solvent Totals: | かい 年末の 一般 アンプラス アンプラス かんかん かんかん かんかん かんかん かんかん かんかん かんかん かん | INTOT | | Person thurs | = 7/60/ |
| | Mondochuse | Ameno | America | Ameron | Ameron | Ameron | Ameron | Ameron | Ameton | Ameron | Ameron | Carboline | Carboline | International | International | | | Ameron | Ameron | Ameron | International | International | Ŧ | The State of | Chory Group | 5 | 1 人 | | - | ر لیمری | ų. |

è

- 10.77 tash

6.194 1/2 11.277 tash

Solma

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Appendix D
Certificate of Good Standing

:

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Louisiana Secretary of State Detailed Record

Charter/Organization ID: 20202730D

Name: GRAND ISLE SHIPYARD INC.

Type Entity: Business Corporation

Status: Active

Annual Report Status: In Good Standing

Last Report Filed on 04/06/2006

Mailing Address: P.O. BOX 820, GALLIANO, LA 70354

Dómicile Address: 18838 HWY. 3235, GALLIANO, LA 70354

File Date: 05/06/1948

Registered Agent (Appointed 5/16/1983): RICHARD PREGEANT, MINNICH LN. & LOUISIANA AVE., GRAND ISLE, LA 70358

Registered Agent (Appointed 8/08/1972): CLYDE W. PREGEANT, JR., MINNICH LN. & LOUISIANA AVE., GRAND ISLE, LA 70358

Registered Agent (Appointed 8/08/1972): ROBERT C. PREGEANT, MINNICH LN. & LOUISIANA AVE., GRAND ISLE, LA 70358

President: ROBERT PREGEANT, 114 PLANTATION DRIVE, CUT OFF, LA 70345

Treasurer: RICHARD PREGEANT, 203 CHATEAU DRIVE, LOCKPORT, LA 70374

Secretary: BRYAN PREGEANT, 130 WEST 104TH STREET, CUT OFF, LA 70345

Amendments on File
DISCLOSURE OF OWNERSHIP (01/16/2004)

Grand Isle Shipyard
Galliano Yard
LAC33.III.2123 Compliance

| , | Paint | Amount | Density | VOC Density | 2123.C-11 Limit | Allowable VOC | Actual VOC |
|---------------|-------------------|------------|--------------|-------------|--------------------|---------------|------------|
| Manufacturer | Name | gal/yr | lbs/gal | lbs/gal | ibs/gal | lbs/yr | lbs/yr |
| Ameron | 370 | 60 | 13.18 | 2.5 | 3.5 | 210 | 150.3 |
| Ameron | 385 | 1600 | 11.80 | 2.3 | 3.5 | 5600 | 3681.6 |
| Ameron | 385 PA | 420 | 11.50 | 2.3 | 5.41 | 2272.2 | 966.0 |
| Ameron | 400 | 820 | 12.20 | 1.4 | 3.5 | 2870 | 1150.5 |
| Ameron . | 450 HS | 1600 | 9.66 | 2.4 | 3.5 | 5600 | 3863.2 |
| Ameron | 68 HS | 1200 | 27.60 | 2.8 | 5.41 | 6492 | 3355.1 |
| Ameron | 78 HB | 40 | 12.90 | 2.0 | 3.5 | 140 | 81.7 |
| Ameron | 861 Accelerator | 140 | 8.10 | 0.0 | 3.5 | 490 | 0.0 |
| Ameron | 866 M Accelerator | 50 | 8.14 | 8.1 | 3.5 | 175 | 407.0 |
| Ameron | D-9 | 260 | 23.00 | 4.1 | 5.41 | 1406.6 | 1066.0 |
| Carboline | 134 HG | 10 | 10.60 | 2.2 | 3.5 | 35 | 21.7 |
| Carboline | CZ-11 | 40 | 23.50 | 4.0 | 5.41 | 216.4 | 160.7 |
| International | 52 Interzinc | 15 | 21.03 | 2.8 | 5.41 | 81.15 | 42.0 |
| International | 475HS Intergard | 10 | 17.50 | 1.5 | 3.5 | 35 | 14.6 |
| Ameron | #101 | 40 | 7.50 | 7.5 | NA | NA | 300.0 |
| Ameron | #65 | 525 | 7.30 | 7.3 | NA | NA | 3832.5 |
| Ameron | #924 | 280 | <i>7</i> .50 | 7.5 | NA | NA | 2100.0 |
| international | GTA 7 | 30 | 6.51 | 6.5 | NA | NA | 195.3 |
| International | GTA 415 | 20 | 7.28 | 7.3 | NA. | NA | 145.6 |
| HANDON LINES | | ondern som | ZERZKIN | Editor Anno | a e watas | en an earlier | NEW WAY |
| | TOTAL: | | gallons | | | 25,623 | 21,534 |
| | | | | | | lb/yr | lb/yr |

Since the total VOC from the paint and thinners is less the allowable VOC per 2123.C-11, the facility is in compliance with the Organic Solvent Subchapter.

Traci Green

From:

Leah Roger [leahroger@bellsouth.net]

Sent:

Tuesday, February 27, 2007 3:20 PM

To:

Traci Green Subject: GIS, Galliano

Traci,

GIS does conduct welding activities on site; the fuming emissions from this activity will be roughly 0.5 tons of PM10 per year. As such, welding is insignificant per LAC.33.III.501.b.5.d-a. Sandblasting is conducted inside a blast shed. There is a 5000 gallon used oil tank onsite. This tank is insignificant per LAC.33.III.501.b.5.a-1 since the vapor pressure of lube oil is less than 0.5 psia (approximately 0.005 psia).

Galliano yard recently named a new Division Manager. Jeffery DeRosia has replaced Mike Cox.

If you have any more questions or need additional information, please feel free to contact me.

Kindest Regards,

Leah



Leah B. Roger, P.E. - President Enviro-Sense, Inc. 609 South State Street Abbeville, LA 70510 Home/Office (337) 898-2823 Cell (337) 652-2832 leahroger@bellsouth.net

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Traci Green

From:

Leah Roger [leahroger@bellsouth.net]

Sent:

Tuesday, February 27, 2007 1:38 PM

To:

Traci Green

Attachments: CARB Factor.jpg

Traci,

After much cleaning of the cob webs out of my little brain, I have finally figured out how the factor I use was derived. On the attached sheet is a portion of an article that was faxed to me from the CARB in 5-94. I use the Bay Area District factor of 1.25% by weight of PM emissions for blasted sand. I apologize for citing it as the CARB factor but suppose I did it because the article was faxed to me from them. This factor has been accepted on many applications and it quite close to that stipulated by AP-42 recently.

I am waiting to hear about the tank and welding. I will forward that info to you when I receive it.

Regards,

Leah



Leah B. Roger, P.E. - President Enviro-Sense, Inc. 609 South State Street Abbeville, LA 70510 Home/Office (337) 898-2823 Cell (337) 652-2832 leahroger@bellsouth.net

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C. LAISSIONS AND THEIR CONTROL

Lamissions

a. Particulate Matter

The particulate matter emitted into the atmosphere is the most significant air pollution problem associated with abrasive blasting. These particles come from both the abrasive and from surface material such as paint, steel, or concrete.

in California occur in three major air basins: the Bay Area, the South Coast, and Silliego. Of this, 50 percent can probably be attributed to the mipping industry. It takes an average of 2,000 to 3,000 tons of abrasive to clean a large showhile a large bridge may take 500 tons. On the average is usually takes 4 to 5 pounds of abrasive to clean each square foot of metal surface area.

In order to determine the magnitude of the particulate matter emissions from abrasive blasting, the ARB staff in 1980 sent a questionnaire to producers and followed up with telephone calls. Because not all producers build set bly needed information, several sources were used as checks on the final estimate. The final estimate is that about 150,000 tons of at 15 % are used each year in California for dry unconfined blasting operations.

sandblasting operations based on the amount of abrasive used. The San Diego County Air Pollution Control District and the Bay Area Air Quality Management District use 1.25 percent by weight of the blasted abrasive for sand, 0.50 percent for slag and 0.38 percent or steel, while the South Coast Air Ouslity Management District uses 4.1 percent by weight of blasted abrasive for sand, 1.0 percent for slag and 0.7 for steel shot.